



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: CLARITY - Uncovering information in fluctuating Climate systems: An opportunity for solving climate modeling nodes and assist local community adaptation measures.

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020-MSCA-IF-2015-EF – Marie Skłodowska-Curie Individual Fellowships

SCIENTIFIC FIELD: Complex Climate; Fluctuation Analysis; Bayesian Modelling; Local UVR Exposure

HOST DEPARTMENT/CENTRE: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Prof. RUBINO Angelo

FELLOW: Dr. BLESIC Suzana

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 180.277,20	€ 180.277,20

ABSTRACT

A consistent picture of climate variability is pivotal for understanding its evolution. CLARITY intends to apply advanced statistical methods developed in the field of statistical physics to analyze, interpret and incorporate into modelling strategies observed, reconstructed, as well as simulated climate data. To achieve this ambitious goal valuable information from fluctuations in climate records will be uncovered. The obtained results will constitute the input for a Bayesian modeling strategy, aimed then at improving modelling reliability. Once operational, this approach will be applied to a series of climatically relevant issues. On a local scale (city of Venice, Italy), particularly, climate records related to temperature, humidity and the ultraviolet radiation exposure of city's school populations will be collected and used to obtain projections that can be of assistance to community needs. CLARITY represents a pilot research that integrates

reconstructions, observations, simulations and applications at the local community level. It will extend climate investigations through the application of methods of statistical physics in an academic environment internationally recognized for its expertise in the field of climatology.

Planned Start Date	Planned End Date
May, 2nd 2016	May, 1st 2018

BENEFICIARY:

1 Università Ca' Foscari Venezia	Italy
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